



Project: Roosevelt Co., NM (NAD 83)
Site: Sec 5-7S-34E
Well: Brown Eyed Girl #2H
Wellbore: HZ [233737]
Design: FINAL



Azimuths to Grid North
True North: -0.47°
Magnetic North: 6.76°

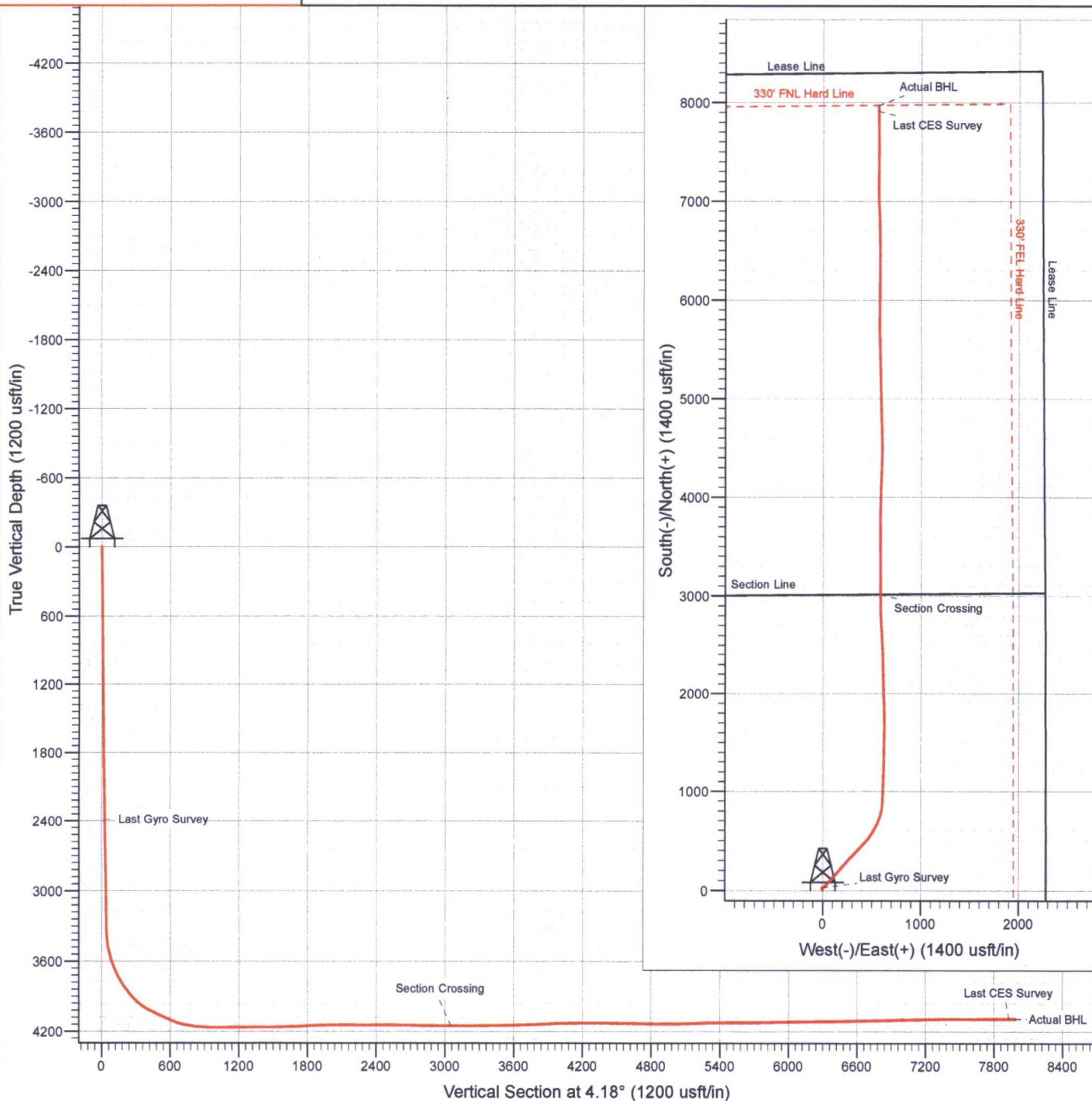
Magnetic Field
Strength: 48890.4nT
Dip Angle: 61.43°
Date: 4/15/2017
Model: HDGM

+N/-S	+E/-W	Northing	Ground Level: Easting	Latitude	Longitude
0.00	0.00	996591.30	4328.00 798862.90	33° 44' 11.64 N	103° 29' 10.44 W

ANNOTATIONS

TVD	MD	Inc	Azi	+N/-S	+E/-W	Vsect	Annotation
2387.76	2388.00	1.10	33.00	28.29	-5.90	27.78	Last Gyro Survey
4150.82	6946.00	89.88	0.27	3016.90	586.34	3051.59	Section Crossing
4090.30	11843.00	90.20	359.50	7911.97	564.27	7932.05	Last CES Survey
4090.10	11900.00	90.20	359.50	7968.97	563.77	7988.86	Actual BHL

Actual Bottom Hole Location
333' FNL / 1668' FEL
X:799426.67 Y:1004560.27





Cathedral Energy Services

Survey Report



Company:	Manzano LLC	Local Co-ordinate Reference:	Well Brown Eyed Girl #2H
Project:	Roosevelt Co., NM (NAD 83)	TVD Reference:	13' RKB @ 4341.00usft (Norton 4)
Site:	Sec 5-7S-34E	MD Reference:	13' RKB @ 4341.00usft (Norton 4)
Well:	Brown Eyed Girl #2H	North Reference:	Grid
Wellbore:	HZ [233737]	Survey Calculation Method:	Minimum Curvature
Design:	FINAL	Database:	USA EDM 5000 Multi Users DB

Project	Roosevelt Co., NM (NAD 83)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site	Sec 5-7S-34E			
Site Position:		Northing:	996,893.13 usft	Latitude: 33° 44' 14.65 N
From:	Map	Easting:	798,473.13 usft	Longitude: 103° 29' 15.02 W
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16"	Grid Convergence: 0.47 °

Well	Brown Eyed Girl #2H			
Well Position	+N/-S	0.00 usft	Northing:	996,591.30 usft
	+E/-W	0.00 usft	Easting:	798,862.90 usft
Position Uncertainty	0.00 usft	Wellhead Elevation:	0.00 usft	Ground Level: 4,328.00 usft

Wellbore	HZ [233737]				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM	4/15/2017	7.23	61.43	48,890

Design	FINAL			
Audit Notes:				
Version:	1.0	Phase:	ACTUAL	Tie On Depth: 0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0.00	0.00	4.18

Survey Program	Date	5/2/2017		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
103.00	2,388.00	Surface Surveys (HZ [233737])	ISCWSA MWD	MWD - ISCWSA
2,465.00	11,900.00	CES MWD (HZ [233737])	MWD+HDGM	OWSG MWD + HDGM

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usf)	Build Rate (°/100u)	Formations / Comments
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
103.00	0.80	29.00	103.00	0.63	0.35	0.65	0.78	0.78	
194.00	1.10	326.00	193.99	1.91	0.17	1.92	1.13	0.33	
288.00	0.80	31.00	287.98	3.22	0.00	3.21	1.12	-0.32	
379.00	0.60	7.00	378.97	4.24	0.39	4.25	0.39	-0.22	
471.00	0.80	308.00	470.96	5.11	-0.06	5.09	0.77	0.22	
563.00	0.30	272.00	562.96	5.51	-0.81	5.44	0.64	-0.54	
654.00	0.50	1.00	653.96	5.92	-1.04	5.83	0.64	0.22	
749.00	0.60	339.00	748.95	6.80	-1.21	6.69	0.24	0.11	
844.00	0.70	256.00	843.95	7.12	-1.95	6.96	0.91	0.11	
940.00	1.10	347.00	939.94	7.88	-2.73	7.66	1.37	0.42	
1,036.00	0.60	35.00	1,035.93	9.19	-2.65	8.97	0.86	-0.52	



Cathedral Energy Services
Survey Report



Company:	Manzano LLC	Local Co-ordinate Reference:	Well Brown Eyed Girl #2H
Project:	Roosevelt Co., NM (NAD 83)	TVD Reference:	13' RKB @ 4341.00usft (Norton 4)
Site:	Sec 5-7S-34E	MD Reference:	13' RKB @ 4341.00usft (Norton 4)
Well:	Brown Eyed Girl #2H	North Reference:	Grid
Wellbore:	HZ [233737]	Survey Calculation Method:	Minimum Curvature
Design:	FINAL	Database:	USA EDM 5000 Multi Users DB

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usf)	Build Rate (°/100u)	Formations / Comments
1,131.00	1.00	317.00	1,130.92	10.20	-2.93	9.96	1.11	0.42	
1,226.00	1.10	348.00	1,225.91	11.70	-3.68	11.40	0.60	0.11	
1,321.00	0.60	341.00	1,320.90	13.06	-4.03	12.73	0.54	-0.53	
1,417.00	1.20	319.00	1,416.89	14.30	-4.86	13.90	0.71	0.62	
1,512.00	0.60	329.00	1,511.87	15.47	-5.76	15.01	0.65	-0.63	
1,607.00	1.20	330.00	1,606.86	16.76	-6.52	16.24	0.63	0.63	
1,798.00	0.50	342.00	1,797.84	19.29	-7.78	18.67	0.38	-0.37	
1,893.00	0.50	354.00	1,892.84	20.09	-7.95	19.46	0.11	0.00	
1,989.00	1.10	342.00	1,988.83	21.39	-8.28	20.73	0.65	0.62	
2,084.00	1.20	21.00	2,083.81	23.18	-8.20	22.52	0.81	0.11	
2,167.00	1.20	12.00	2,166.79	24.84	-7.71	24.22	0.23	0.00	
2,262.00	0.90	33.00	2,261.77	26.44	-7.10	25.85	0.51	-0.32	
2,388.00	1.10	33.00	2,387.76	28.29	-5.90	27.78	0.16	0.16	Last Gyro Survey
2,465.00	1.20	56.30	2,464.74	29.35	-4.82	28.92	0.62	0.13	
2,560.00	1.80	65.70	2,559.71	30.52	-2.64	30.25	0.68	0.63	
2,654.00	1.90	77.50	2,653.66	31.46	0.23	31.40	0.42	0.11	
2,750.00	2.00	72.70	2,749.60	32.31	3.38	32.47	0.20	0.10	
2,845.00	2.50	63.70	2,844.53	33.72	6.82	34.12	0.64	0.53	
2,940.00	2.40	63.10	2,939.44	35.54	10.45	36.20	0.11	-0.11	
3,036.00	2.10	64.60	3,035.37	37.20	13.84	38.11	0.32	-0.31	
3,132.00	1.70	66.50	3,131.32	38.52	16.73	39.64	0.42	-0.42	
3,227.00	1.40	76.60	3,226.28	39.35	19.15	40.64	0.42	-0.32	
3,291.00	1.00	79.90	3,290.27	39.63	20.46	41.02	0.63	-0.62	
3,322.00	0.90	81.40	3,321.26	39.72	20.97	41.14	0.33	-0.32	
3,354.00	2.10	63.30	3,353.25	40.02	21.74	41.50	3.99	3.75	
3,386.00	5.10	42.20	3,385.19	41.34	23.22	42.92	10.09	9.37	
3,417.00	7.40	37.40	3,416.00	43.94	25.36	45.67	7.60	7.42	
3,449.00	10.30	35.70	3,447.62	47.91	28.28	49.84	9.10	9.06	
3,481.00	13.80	37.10	3,478.91	53.27	32.25	55.48	10.97	10.94	
3,513.00	16.90	40.40	3,509.76	59.86	37.57	62.44	10.06	9.69	
3,545.00	18.90	44.10	3,540.21	67.13	44.19	70.17	7.19	6.25	
3,576.00	21.10	44.20	3,569.34	74.73	51.58	78.29	7.10	7.10	
3,608.00	23.60	41.70	3,598.93	83.65	59.86	87.78	8.36	7.81	
3,640.00	25.80	38.90	3,628.01	93.85	68.49	98.59	7.79	6.87	
3,672.00	27.50	40.80	3,656.61	104.86	77.69	110.24	5.94	5.31	
3,703.00	29.70	43.70	3,683.82	115.84	87.68	121.91	8.39	7.10	
3,735.00	32.60	45.10	3,711.21	127.65	99.26	134.55	9.34	9.06	
3,766.00	35.00	45.10	3,736.96	139.83	111.48	147.57	7.74	7.74	
3,798.00	37.00	43.60	3,762.85	153.28	124.62	161.95	6.83	6.25	
3,830.00	39.00	42.70	3,788.07	167.65	138.09	177.27	6.49	6.25	
3,862.00	41.50	41.20	3,812.49	183.03	151.90	193.61	8.38	7.81	
3,893.00	43.30	41.00	3,835.38	198.79	165.65	210.32	5.82	5.81	
3,925.00	45.60	41.50	3,858.22	215.63	180.42	228.20	7.27	7.19	
3,957.00	48.10	42.10	3,880.11	233.03	195.98	246.69	7.93	7.81	
3,988.00	49.80	41.60	3,900.46	250.45	211.58	265.19	5.62	5.48	
4,020.00	50.90	40.40	3,920.88	269.04	227.74	284.91	4.49	3.44	
4,052.00	53.50	42.70	3,940.50	287.95	244.51	305.00	9.91	8.12	
4,084.00	56.00	44.20	3,958.96	306.92	262.49	325.22	8.70	7.81	
4,115.00	60.70	44.30	3,975.23	325.82	280.90	345.41	15.16	15.16	
4,147.00	63.70	44.30	3,990.15	346.07	300.66	367.05	9.37	9.37	
4,179.00	67.10	44.20	4,003.47	366.91	320.96	389.32	10.63	10.62	
4,211.00	70.20	43.80	4,015.12	388.35	341.66	412.20	9.76	9.69	
4,243.00	70.31	44.00	4,025.93	410.05	362.55	435.37	0.68	0.34	



Cathedral Energy Services

Survey Report



Company:	Manzano LLC	Local Co-ordinate Reference:	Well Brown Eyed Girl #2H
Project:	Roosevelt Co., NM (NAD 83)	TVD Reference:	13' RKB @ 4341.00usft (Norton 4)
Site:	Sec 5-7S-34E	MD Reference:	13' RKB @ 4341.00usft (Norton 4)
Well:	Brown Eyed Girl #2H	North Reference:	Grid
Wellbore:	HZ [233737]	Survey Calculation Method:	Minimum Curvature
Design:	FINAL	Database:	USA EDM 5000 Multi Users DB

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usf)	Build Rate (°/100u)	Formations / Comments
4,275.00	70.40	43.70	4,036.69	431.78	383.43	458.57	0.93	0.28	
4,306.00	70.30	43.70	4,047.11	452.89	403.60	481.09	0.32	-0.32	
4,338.00	70.10	43.60	4,057.95	474.68	424.38	504.33	0.69	-0.62	
4,370.00	70.30	42.20	4,068.79	496.73	444.87	527.82	4.16	0.62	
4,402.00	70.20	39.40	4,079.61	519.53	464.55	551.98	8.24	-0.31	
4,433.00	70.40	36.20	4,090.06	542.59	482.44	576.28	9.74	0.65	
4,465.00	69.90	32.00	4,100.93	567.50	499.31	602.36	12.44	-1.56	
4,497.00	69.20	30.70	4,112.11	593.11	514.91	629.03	4.39	-2.19	
4,529.00	71.90	29.50	4,122.76	619.21	530.03	656.17	9.15	8.44	
4,561.00	75.50	27.70	4,131.74	646.17	544.73	684.13	12.48	11.25	
4,593.00	78.50	24.00	4,138.94	674.23	558.32	713.10	14.66	9.37	
4,625.00	80.00	20.60	4,144.91	703.31	570.24	742.97	11.44	4.69	
4,657.00	81.20	17.60	4,150.14	733.14	580.57	773.48	9.98	3.75	
4,688.00	83.20	14.50	4,154.35	762.65	589.06	803.53	11.82	6.45	
4,720.00	84.20	11.30	4,157.86	793.65	596.16	834.96	10.42	3.12	
4,752.00	85.00	8.90	4,160.87	825.01	601.74	866.65	7.87	2.50	
4,783.00	86.30	6.20	4,163.23	855.65	605.80	897.50	9.64	4.19	
4,815.00	87.50	2.60	4,164.96	887.50	608.25	929.45	11.84	3.75	
4,846.00	88.80	2.40	4,165.96	918.46	609.60	960.42	4.24	4.19	
4,941.00	91.30	3.10	4,165.87	1,013.34	614.16	1,055.38	2.73	2.63	
5,036.00	90.70	1.60	4,164.22	1,108.24	618.06	1,150.31	1.70	-0.63	
5,131.00	90.30	1.00	4,163.39	1,203.21	620.21	1,245.19	0.76	-0.42	
5,225.00	90.40	0.70	4,162.81	1,297.20	621.61	1,339.03	0.34	0.11	
5,320.00	89.80	1.20	4,162.65	1,392.19	623.18	1,433.88	0.82	-0.63	
5,415.00	91.00	0.90	4,161.98	1,487.17	624.92	1,528.73	1.30	1.26	
5,510.00	91.50	0.90	4,159.91	1,582.13	626.41	1,623.55	0.53	0.53	
5,603.00	92.40	359.80	4,156.75	1,675.07	626.98	1,716.29	1.53	0.97	
5,699.00	92.90	359.00	4,152.31	1,770.96	625.98	1,811.85	0.98	0.52	
5,793.00	91.60	358.80	4,148.62	1,864.87	624.17	1,905.38	1.40	-1.38	
5,888.00	91.50	358.40	4,146.05	1,959.81	621.85	1,999.90	0.43	-0.11	
5,983.00	89.70	357.30	4,145.05	2,054.73	618.29	2,094.31	2.22	-1.89	
6,079.00	90.20	358.10	4,145.14	2,150.65	614.44	2,189.69	0.98	0.52	
6,172.00	89.70	358.70	4,145.22	2,243.62	611.84	2,282.22	0.84	-0.54	
6,267.00	90.40	359.60	4,145.14	2,338.60	610.43	2,376.85	1.20	0.74	
6,361.00	90.20	358.90	4,144.64	2,432.59	609.20	2,470.50	0.77	-0.21	
6,456.00	89.40	356.90	4,144.98	2,527.52	605.72	2,564.93	2.27	-0.84	
6,551.00	89.00	356.20	4,146.30	2,622.34	600.00	2,659.08	0.85	-0.42	
6,647.00	88.10	356.10	4,148.73	2,718.09	593.56	2,754.11	0.94	-0.94	
6,742.00	89.30	357.80	4,150.89	2,812.93	588.51	2,848.32	2.19	1.26	
6,837.00	90.40	359.60	4,151.13	2,907.90	586.35	2,942.88	2.22	1.16	
6,932.00	90.00	0.30	4,150.80	3,002.90	586.27	3,037.62	0.85	-0.42	
6,946.00	89.88	0.27	4,150.82	3,016.90	586.34	3,051.59	0.87	-0.84	Section Crossing
7,027.00	89.20	0.10	4,151.47	3,097.89	586.60	3,132.39	0.87	-0.84	
7,123.00	91.40	0.40	4,150.96	3,193.89	587.02	3,228.16	2.31	2.29	
7,218.00	89.80	358.80	4,149.97	3,288.87	586.36	3,322.84	2.38	-1.68	
7,313.00	91.50	0.10	4,148.89	3,383.86	585.44	3,417.51	2.25	1.79	
7,408.00	90.40	359.50	4,147.32	3,478.84	585.11	3,512.22	1.32	-1.16	
7,503.00	91.60	359.90	4,145.66	3,573.82	584.62	3,606.91	1.33	1.26	
7,598.00	91.50	358.80	4,143.09	3,668.78	583.54	3,701.54	1.16	-0.11	
7,694.00	92.70	0.60	4,139.57	3,764.71	583.03	3,797.18	2.25	1.25	
7,789.00	92.90	1.00	4,134.93	3,859.59	584.36	3,891.90	0.47	0.21	
7,884.00	92.20	1.30	4,130.70	3,954.47	586.26	3,986.67	0.80	-0.74	
7,979.00	92.10	1.30	4,127.14	4,049.38	588.42	4,081.48	0.11	-0.11	



Cathedral Energy Services Survey Report



Company:	Manzano LLC	Local Co-ordinate Reference:	Well Brown Eyed Girl #2H
Project:	Roosevelt Co., NM (NAD 83)	TVD Reference:	13' RKB @ 4341.00usft (Norton 4)
Site:	Sec 5-7S-34E	MD Reference:	13' RKB @ 4341.00usft (Norton 4)
Well:	Brown Eyed Girl #2H	North Reference:	Grid
Wellbore:	HZ [233737]	Survey Calculation Method:	Minimum Curvature
Design:	FINAL	Database:	USA EDM 5000 Multi Users DB

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usf)	Build Rate (°/100u)	Formations / Comments
8,004.00	91.90	1.10	4,126.27	4,074.36	588.94	4,106.43	1.13	-0.80	
8,099.00	89.40	3.00	4,125.19	4,169.28	592.34	4,201.35	3.31	-2.63	
8,193.00	89.10	2.20	4,126.42	4,263.18	596.60	4,295.31	0.91	-0.32	
8,288.00	90.20	1.60	4,127.00	4,358.12	599.75	4,390.23	1.32	1.16	
8,383.00	89.00	0.30	4,127.66	4,453.10	601.33	4,485.07	1.86	-1.26	
8,478.00	89.30	359.10	4,129.07	4,548.09	600.83	4,579.77	1.30	0.32	
8,574.00	89.20	358.90	4,130.33	4,644.06	599.16	4,675.37	0.23	-0.10	
8,669.00	88.50	358.90	4,132.24	4,739.03	597.33	4,769.95	0.74	-0.74	
8,764.00	89.70	358.10	4,133.73	4,833.98	594.85	4,864.47	1.52	1.26	
8,859.00	91.10	357.90	4,133.06	4,928.92	591.53	4,958.91	1.49	1.47	
8,953.00	90.00	358.00	4,132.16	5,022.85	588.17	5,052.35	1.18	-1.17	
9,048.00	92.30	359.00	4,130.26	5,117.79	585.68	5,146.86	2.64	2.42	
9,143.00	92.50	359.10	4,126.28	5,212.70	584.11	5,241.39	0.24	0.21	
9,239.00	90.70	359.50	4,123.60	5,308.65	582.94	5,337.01	1.92	-1.87	
9,334.00	90.50	359.00	4,122.60	5,403.63	581.69	5,431.65	0.57	-0.21	
9,429.00	90.20	359.10	4,122.02	5,498.62	580.12	5,526.27	0.33	-0.32	
9,524.00	89.90	358.70	4,121.94	5,593.60	578.29	5,620.86	0.53	-0.32	
9,619.00	90.60	358.90	4,121.52	5,688.58	576.30	5,715.45	0.77	0.74	
9,714.00	91.00	0.80	4,120.20	5,783.56	576.05	5,810.16	2.04	0.42	
9,809.00	90.90	0.90	4,118.62	5,878.54	577.46	5,904.99	0.15	-0.11	
9,904.00	90.80	0.30	4,117.21	5,973.52	578.46	5,999.79	0.64	-0.11	
9,999.00	90.80	0.50	4,115.89	6,068.51	579.12	6,094.58	0.21	0.00	
10,094.00	90.60	0.20	4,114.73	6,163.50	579.70	6,189.36	0.38	-0.21	
10,190.00	90.40	359.90	4,113.89	6,259.50	579.79	6,285.10	0.38	-0.21	
10,285.00	90.20	0.30	4,113.39	6,354.50	579.95	6,379.86	0.47	-0.21	
10,380.00	91.70	0.20	4,111.82	6,449.48	580.37	6,474.62	1.58	1.58	
10,475.00	90.80	359.20	4,109.74	6,544.46	579.87	6,569.31	1.42	-0.95	
10,570.00	91.60	358.90	4,107.75	6,639.42	578.29	6,663.91	0.90	0.84	
10,665.00	91.50	358.70	4,105.18	6,734.37	576.31	6,758.45	0.24	-0.11	
10,760.00	91.30	358.20	4,102.86	6,829.30	573.74	6,852.95	0.57	-0.21	
10,855.00	90.90	357.10	4,101.04	6,924.20	569.84	6,947.32	1.23	-0.42	
10,950.00	91.60	358.10	4,098.97	7,019.10	565.86	7,041.67	1.28	0.74	
11,045.00	91.80	359.50	4,096.15	7,114.03	563.88	7,136.21	1.49	0.21	
11,141.00	90.60	0.60	4,094.14	7,210.01	563.96	7,231.93	1.70	-1.25	
11,236.00	90.20	0.90	4,093.48	7,305.00	565.20	7,326.76	0.53	-0.42	
11,331.00	90.20	0.50	4,093.14	7,399.99	566.36	7,421.58	0.42	0.00	
11,426.00	90.30	0.00	4,092.73	7,494.99	566.78	7,516.36	0.54	0.11	
11,521.00	90.20	359.90	4,092.31	7,589.98	566.70	7,611.10	0.15	-0.11	
11,616.00	90.40	359.60	4,091.82	7,684.98	566.28	7,705.82	0.38	0.21	
11,711.00	90.40	359.50	4,091.15	7,779.98	565.53	7,800.50	0.11	0.00	
11,806.00	90.40	359.40	4,090.49	7,874.97	564.62	7,895.18	0.11	0.00	
11,843.00	90.20	359.50	4,090.30	7,911.97	564.27	7,932.05	0.60	-0.54	Last CES Survey
11,900.00	90.20	359.50	4,090.10	7,968.97	563.77	7,988.86	0.00	0.00	Actual BHL



Cathedral Energy Services
Survey Report



Company: Manzano LLC
Project: Roosevelt Co., NM (NAD 83)
Site: Sec 5-7S-34E
Well: Brown Eyed Girl #2H
Wellbore: HZ [233737]
Design: FINAL

Local Co-ordinate Reference: Well Brown Eyed Girl #2H
TVD Reference: 13' RKB @ 4341.00usft (Norton 4)
MD Reference: 13' RKB @ 4341.00usft (Norton 4)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: USA EDM 5000 Multi Users DB

Targets

Target Name	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- hit/miss target	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
- Shape									
BEG 5 #2H - BHL 1	0.00	0.00	4,070.00	7,972.10	582.20	1,004,563.40	799,445.10	33° 45' 30.45 N	103° 29' 2.77 W
- actual wellpath misses target center by 27.45usft at 11900.00usft MD (4090.10 TVD, 7968.97 N, 563.77 E)									
- Point									
BEG 5 #2H - BHL 3	0.00	0.00	4,090.00	7,972.10	582.20	1,004,563.40	799,445.10	33° 45' 30.45 N	103° 29' 2.77 W
- actual wellpath misses target center by 18.69usft at 11900.00usft MD (4090.10 TVD, 7968.97 N, 563.77 E)									
- Point									

Design Annotations

Measured Depth	Vertical Depth	Local Coordinates		Comment
(usft)	(usft)	+N/-S (usft)	+E/-W (usft)	
2,388.00	2,387.76	28.29	-5.90	Last Gyro Survey
6,946.00	4,150.82	3,016.90	586.34	Section Crossing
11,843.00	4,090.30	7,911.97	564.27	Last CES Survey
11,900.00	4,090.10	7,968.97	563.77	Actual BHL

Checked By: _____ Approved By: _____ Date: _____